

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-31

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

GFI CONTROL SYSTEMS, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 2001 model-year GFI Control Systems, Inc. Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Dual-Fuel Liquefied Petroleum Gas (LPG) or Gasoline

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
1G9XH06.88CP	6.8 (417)	Sequential Multiport Fuel Injection Dual Heated Oxygen Sensors Three Way Catalytic Converter

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.9	37.1	4.0

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are: (The values in parentheses are for gasoline.)

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0.3 (0.1)	4.1 (2.4)	1.3 (0.5)

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Sections 1965).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 28th day of August 2000.

A handwritten signature in black ink, appearing to read "R. B. Summerfield", is written over a horizontal line.

R. B. Summerfield, Chief
Mobile Source Operations Division

1. Engine Code 2. Engine Model

Family

18CP 1F717E05006F4P1P02

V-10 GFP

3.BHP @RPM
(SAE Gross)

310 @ 4250

4. Fuel Rate:
mm/stroke @ peak HP
(for diesel only)

NA

5. Fuel Rate:
(lbs/hr) @ peak HP
(for diesels only)

NA

6. Torque @ RPM
(SEA Gross)

425 @ 3250

7. Fuel Rate:
mm/stroke @ peak
torque

444mm/stroke

8. Fuel Rate:
(lbs/hr) @ peak torque

119 lbs/hr

9. Emission Contr
Device Per SAE J1

TWC/2H02S/SF